AI Planning Exercise Sheet 7

AI Planning Exercise Sheet 7

Date: December 11, 2014

Students: Axel Perschmann, Tarek Saier

Exercise 7.1

(a)
$$\Pi' = \{V, I, O, \gamma\}$$
 with

- $V = \{above-a, above-b, above-c, below-a, below-b, below-c\}$ $\mathcal{D}_{above-\Upsilon} = \{A, B, C, n\} \setminus \{\Upsilon\}$ $\mathcal{D}_{below-\Upsilon} = \{A, B, C, t\} \setminus \{\Upsilon\}$ where $\Upsilon \in \{A, B, C\}$
- I(a) = 1 for $a \in \{below b = t, above b = A, above a = n, below c = t, above c = n\}$ I(a) = 0 else
- $O = \{move-X-Y-Z, move-X-Table-Z, move-X-Y-Table\}$ $move-X-Y-Z = \langle \rangle$ $move-X-Table-Z = \langle \rangle$ $move-X-Y-Table = \langle \rangle$
- $\gamma = (above c = B) \wedge (above a = C)$

Exercise 7.2

bar